

**WEST**

Generate Collection

L14: Entry 6 of 24

File: USPT

Nov 16, 1999

DOCUMENT-IDENTIFIER: US 5986729 A

TITLE: Liquid crystal display device and method of manufacturing the same

Detailed Description Text (29):

Specifically, the guest-host liquid crystal containing the magenta dichroic dye is prepared and microcapsules having therein the guest-host liquid crystal as the core substance are produced. The microcapsules are dispersed in a binder (acrylic positive resist) to form a mixture, which is applied to the lower substrate 1 provided with the first liquid crystal layer 18 and with the second pixel electrode 12 by using a roll coater and dried, resulting in the second liquid crystal layer 19. The second liquid crystal layer 19 is exposed to UV light, while being masked except for the portion corresponding to the opening 22. The exposed portion is washed away in the developing agent to form the opening 22. Thereafter, the liquid crystal layer is sintered and an ITO film is deposited by sputtering on the liquid crystal layer including the opening. The ITO film is then patterned into the configuration as shown in FIG. 2, thereby forming the third pixel electrode 13.